

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) An article of manufacture consisting of ~~comprising~~:

a housing;

a fan mounted to the housing to generate an air stream;

between about 10 ml and about 15 ml of a volatile liquid carried within an enclosed reservoir, the volatile liquid having an evaporation rate between about 5.0×10^{-9} and about 10.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis; and

a wick extending between the volatile liquid and the air stream;

wherein about 90% of the volatile liquid evaporates through the wick between within one and two months under ambient conditions at ambient room temperature when the wick is exposed to the surrounding environment ~~without being heated above ambient room temperature by a heating element.~~

2. (Previously Presented) The article of manufacture of claim 1, wherein the evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.

3. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid has a relative evaporation rate of between about 0.50 and about 4.0.

4. (Previously Presented) The article of manufacture of claim 1, wherein the fan exhibits a throughput of about 0.4 cubic feet per minute to about 0.45 cubic feet per minute.

5. (Previously Presented) The article of manufacture of claim 1, wherein the air stream is intermittent.

6. (Previously Presented) The article of manufacture of claim 5, wherein the air stream is on and off in a ratio of about 1 minute to 3 minutes.

7. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid comprises a fragrance.

8. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid comprises an insecticide.

9. (Previously Presented) The article of manufacture of claim 1, wherein the volatile liquid is contained within a container that is adapted to be releasably secured to the housing.

10. (Previously Presented) The article of manufacture of claim 1, wherein about 90% of the volatile liquid evaporates in about 2 months under ambient conditions.

11. (Previously Presented) The article of manufacture of claim 1, wherein the wick is in alignment with the fan to immerse the wick into the air stream.

12. (Previously Presented) The article of manufacture of claim 11, wherein the wick has a mean pore size between about 1 micron and about 10 microns.

13. (Currently Amended) An article of manufacture consisting of comprising:
a housing;
a porous wick associated with the housing; and
a preselected volume of volatile liquid enclosed within a reservoir, the volatile liquid having an evaporation rate between about 5.0×10^{-9} to about 10.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis, wherein the wick is in fluid communication with the volatile liquid and the surrounding environment, and wherein at least 90% of the volatile liquid evaporates within 2 months under ambient conditions at ambient room temperature when the wick is exposed to the surrounding environment ~~and without being heated above ambient room temperature by a heating element.~~
14. (Previously Presented) The article of manufacture of claim 13, wherein the evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.
15. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid has a relative evaporation rate between about 0.50 and about 4.0.
16. (Previously Presented) The article of manufacture of claim 13, further comprising a fan for generating an air stream.
17. (Previously Presented) The article of manufacture of claim 13, wherein the fan exhibits a throughput of about 0.4 cubic feet per minute to about 0.45 cubic feet per minute.
18. (Previously Presented) The article of manufacture of claim 13, wherein the air stream is intermittent.

19. (Previously Presented) The article of manufacture of claim 13, wherein the air stream is on and off in a ratio of about 1 minute to 3 minutes.

20. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid comprises a fragrance.

21. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid comprises an insecticide.

22. (Previously Presented) The article of manufacture of claim 13, wherein the volatile liquid is contained within a container that is releasably secured to the housing.

23. (Previously Presented) The article of manufacture of claim 13, wherein the preselected volume of volatile liquid is between about 10 ml and about 15 ml.

24. (Previously Presented) The article of manufacture of claim 13, wherein the wick has a mean pore size between about 1 and about 10 microns.

25. – 48 (Canceled)

49. (New) A refill, comprising:

a container comprising an aperture; and

a preselected volume of volatile liquid disposed in the container, wherein the volatile liquid includes a plurality of components and is preselected based on a predetermined evaporation profile including at least two evaporation rates as measured and calculated by drop shape analysis, a first evaporation rate calculated at a first time and a second evaporation rate calculated at a second time, wherein the evaporation rate at each time is calculated using an equation wherein the evaporation rate at a time $t = 2(\text{volume at } t_2 - \text{volume at } t_1) / (\text{surface area at } t_2 + \text{surface area at time } t_1)$, where time $t = (t_1 + t_2)/2$.

50. (New) The refill of claim 49, wherein the first time is calculated using $t_1=0$ and $t_2=2$.

51. (New) The refill of claim 50, wherein the second time is calculated using $t_1=1$ and $t_2=3$.

52. (New) The refill of claim 49, wherein the first evaporation rate is measured at about 80% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis, wherein the second evaporation rate is measured at about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis, and wherein the first evaporation rate is approximately equal to the second evaporation rate.

53. (New) The refill of claim 52, wherein the first evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.

54. (New) The refill of claim 49, wherein the volatile liquid has a relative evaporation rate of between about 0.50 and about 4.0.

55. (New) The refill of claim 49, wherein the evaporation rate of the volatile liquid remains at a substantially constant level after about 0.8 volume fraction of the liquid is remaining.

56. (New) The refill of claim 49, wherein the preselected volume of volatile liquid is between about 10 ml and about 15 ml.

57. (New) The refill of claim 49, further comprising a wick disposed within the aperture of the container, wherein the wick facilitates the release of the volatile active.

58. (New) The refill of claim 57, wherein the wick comprises a polymeric material.

59. (New) The refill of claim 58, wherein a solubility parameter of the polymeric material is different from a solubility parameter of the plurality of components within the volatile liquid.

60. (New) The refill of claim 58, wherein the wick has a mean pore size between about 1 micron and about 10 microns.

61. (New) A refill, comprising:

a container and a volatile liquid carried by the container, the volatile liquid having an evaporation rate, wherein the volatile liquid is preselected based on an evaporation rate thereof that is calculated using an equation, wherein

$$\begin{aligned} &\text{the evaporation rate at a time } t = 2(\text{volume at } t_2 - \text{volume at } t_1) / \\ &(\text{surface area at } t_2 + \text{surface area at time } t_1), \end{aligned}$$

where time $t = (t_1 + t_2)/2$, wherein the evaporation rate is about 5.0×10^{-9} to about 10.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis; and

a wick disposed in the aperture, wherein the wick is in fluid communication with the volatile liquid and the surrounding environment;

wherein the volatile liquid has a relative evaporation rate between about 0.50 and about 4.0.

62. (New) The refill of claim 61, wherein the evaporation rate is between about 1.0×10^{-8} and about 7.0×10^{-8} meters per second measured with about 30% of the volatile liquid remaining at room temperature, as measured and calculated by drop shape analysis.

63. (New) The refill of claim 61, wherein the wick has a mean pore size between about 1 and about 10 microns.

64. (New) The refill of claim 63, wherein solubility parameters of the wick and the volatile active are different.

65. (New) The refill of claim 61, wherein the volatile liquid includes a first component that evaporates at 8×10^{-8} m/s over one month and a second component that evaporates at 2×10^{-8} m/s over two months.

66. (New) The refill of claim 61, wherein the volatile liquid evaporates at 8×10^{-8} m/s over one month.

67. (New) The refill of claim 61, wherein the container includes a predetermined amount of liquid in the amount of about 10 ml to about 15 ml.

68. (New) The refill of claim 61, wherein the volatile liquid comprises a fragrance.

69. (New) The refill of claim 61, wherein the volatile liquid comprises an insecticide.

70. (New) The refill of claim 61, wherein the volatile liquid comprises dodecane and tetradecane.

71. (New) The refill of claim 70, wherein dodecane is present in an amount of about 60% and tetradecane is present in an amount of about 40%.

72. (New) The refill of claim 61, wherein at least 90% of the volatile liquid is capable of evaporating within 2 months under ambient conditions.